

SmartTech-IC 2019: First International Conference on Smart Technologies, Systems and Applications

Quito – Ecuador

Final Program

Monday, December 2	
8:00 – 9:00	Registration
9:00 – 10:00	Conference Opening
10:00 – 11:00	Keynote: “Smarter medical devices through massive, longitudinal data analytics” , <i>Alfredo Hernández, Ph.D</i> <i>Research Director at the French National Institutes of Health and Medical Research (INSERM) (France)</i>
11:00 – 11:30	Coffee Break
11:30 – 12:30	Keynote: “Multiclassifiers - improving the performance of predictive models” , <i>César Ferri, Ph.D</i> <i>Universitat Politècnica de València (Spain)</i>
12:30 – 14:00	Lunch
	Session I: Smart Health (Sala Múltiple 1) Chair: Fabián Narváez
	Session II: Smart Systems (Sala Múltiple 2) Chair: Julio Proaño
14:00 – 14:20	Technological Platform for the Control of the Supply of Medication to People with Diabetes. Authors: Mauro Callejas-Cuervo, Juan Pablo Contreras Barrera and David Leonardo Cárdenas Rengifo (Colombia)
14:20 – 14:40	Enabling the Latent Semantic Analysis of Large-Scale Information Retrieval Datasets by means of Out-Of-Core Heterogeneous Systems, Authors: Gabriel Alejandro León Paredes, Liliana Ibeth Barbosa Santillán and Antonio Pareja Lora (Ecuador)
14:20 – 14:40	Knowledge transfer in Convolutional Neural Networks to enhance model performance in mammogram classification, Authors: Roberto Arias, Fabián Narváez and Hugo Franco (Colombia)
14:40 – 15:00	The network virtualization to support the scalability of the Internet of Things, Authors: Carlos Javier Gonzalez, Olivier Flauzac and Florent Nolot (Panamá)
14:40 – 15:00	Fusion of 3D Radiomic Features from multiparametric Magnetic Resonance Images for Breast Cancer Risk Classification, Authors: Diana Marcela Marín Castrillón, Jaider Stiven Rincón, Liliana María Hernández, Andrés Eduardo Castro Ospina and Gloria M. Díaz (Colombia)
15:00 – 17:00	Factors that Affect I-Vectors Based Language Identification Systems, Authors: David Romero, Christian Salamea, Fernando Chica and Erick Narvaez (Ecuador)
15:00 – 17:00	Tutorial: Deep learning for biological image analysis, Juan C. Caicedo, Ph.D (Aula Magna)
	Tutorial: Motion estimation: from analytical to learning-based methods, Antoine Manzanera, Ph.D (Auditorio Padre Carollo)

Tuesday, December 3	
8:00 – 9:00	Registration
9:00 – 10:00	Keynote: “Biological treatments analysis using deep learning “ Juan C. Caicedo, Ph.D <i>Broad Institute of MIT and Harvard (USA)</i>
10:00 – 11:00	Keynote: “Learning different visual cues for 3d reconstruction from videos ” Antoine Manzanera, Ph.D <i>ENSTA ParisTech - Autonomous Systems and Robotics Laboratory (France)</i>
11:00 – 11:30	Coffee break
	Session III: Smart Trends (Aula Magna) Chair: Hugo Franco
	Session IV: Smart grid and Renewable Energy (Sala Múltiple 2) Chair: Leony Ortiz
11:30 – 11:50	Using machine learning and information visualisation for discovering latent topics in Twitter news , Authors: Vladimir Vargas-Calderón, Marlon Steibeck Dominguez, Nicolás Parra, Herbert Vinck-Posada and Jorge E. Camargo (Colombia)
	Scalable Electrical Distribution Networks Planning for Medium and Low Voltage considering Capacity on Transformers and Voltage Drop , Authors: Milton Ruiz, Esteban Inga and Silvio Simani (Ecuador)
11:50 – 12:10	Latent Semantic Index: a Microservices Architecture , Authors: Julio Proaño, Jonnathan Juma and Andrés Reinoso (Ecuador)
	Performance Analysis of a Direct-Expansion Solar-Assisted Heat Pump Using a Photovoltaic/Thermal System for Water Heating , Authors: William Quitiaquez, Isaac Simbaña, César Isaza, César Nieto-Londoño, Patricio Quitiaquez and Luis Toapanta (Ecuador)
12:10 – 12:30	A content-based multi label classification model to suggest tags for posts in Stack Overflow , Authors: Fredy A. Moreno and Jorge E. Camargo (Colombia)
	Spectral power map generation based on spectrum scanning in the ISM band for interference effects , Authors: Benjamin Huertas Herrera, David Goéz Sánchez and Erick Reyes Vera (Colombia)
12:30 – 14:00	Lunch
	Session V: Smart Systems II (Aula Magna) Chair: Gloria Díaz
	Session VI: Smart Applications (Sala Múltiple 2) Chair: Julio Proaño
14:00 – 14:20	A Genetic Algorithm for BAP + QCAP with imprecision in the arrival of vessels , Authors: Flabio Gutierrez, Edwar Lujan, Jose Rodríguez-Melquiades and Miguel Jimenez-Carrion (Perú)
	Emotion Recognition From Time-Frequency Analysis in EEG Signals Using Deep Learning Approaches . Authors: Rubén Darío Fonnegra Tarazona, Pablo Campaz Usuga, Kevin Osorno Castillo and Gloria Mercedes Díaz Cabrera (Colombia)
14:20 – 14:40	Data Analysis of Particle Physics Experiments Based on Machine Learning , Author: Huber Nieto-Chaupis (Perú)
	Incorporation of Language Discriminative Information into Recurrent Neural Networks Models to LID tasks . Authors: Christian Salamea, Ricardo Cordoba, Luis Fernando D'Haro and David Romero (Ecuador)
14:40 – 15:00	Implementation of a Real-Time Monitoring and Analysis System for Luminous Flux Test in Integrating Sphere , Authors: Ronny Omar De La Bastida Chiza, Ricardo David Araguillín López, Nelson Sotomayor Orozco and Consuelo Carolina Chasi Gallo (Ecuador)
	Hand Angle Estimation Prediction from Neural Networks using sEMG and Inertial Sensors . Authors: Alfredo Lobaina Delgado, Cesar Quinayas, Andrés Ruiz, Adson Ferreira da Rocha and Alberto López Delis (Cuba)
15:00 – 17:00	Tutorial: Evaluating classifiers, Cesar Ferri, Ph.D (Aula Magna)
	Tutorial: Smart medical devices, Alfredo Hernandez, Ph.D (Aud. Padre Carollo)

Wednesday, December 4			
8:00 – 9:00	Registration		
9:00 – 10:00	Keynote: “Smart-Health for aiding diagnosis, beyond of machine learning” <i>Gloria Díaz, Ph.D</i> <i>Instituto Tecnológico Metropolitano (Colombia)</i>		
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14:00 – 16:00	Forum: Social Responsibility in Research Practice, Esteban Inga, PhD. (Aula Magna)		
16:00 – 17:00	Conference Closing (Cultural Event)		